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Search Results - Record(s) 1 through 6 of 6 returned.

1. Document ID: US 20040086880 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 6

File: PGPB

May 6, 2004

Dec 26, 2002

PGPUB-DOCUMENT-NUMBER: 20040086880

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040086880 A1

TITLE: Method of producing nucleic acid molecules with reduced secondary structure

PUBLICATION-DATE: May 6, 2004

INVENTOR - INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Sampson, Jeffrey R. San Francisco CA US Ach, Robert A. San Francisco CA US

Wolber, Paul Los Altos CA US

US-CL-CURRENT: 435/6; 514/44, 536/23.1

Full	Title	Citation Fr	ront Rev	view	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De
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	2.	Document	ID: US	S 20	020197618	A1						

File: PGPB

PGPUB-DOCUMENT-NUMBER: 20020197618

PGPUB-FILING-TYPE: new

L4: Entry 2 of 6

DOCUMENT-IDENTIFIER: US 20020197618 A1

TITLE: Synthesis and amplification of unstructured nucleic acids for rapid

sequencing

PUBLICATION-DATE: December 26, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Sampson, Jeffrey R. Burlingame CA US

US-CL-CURRENT: 435/6; 435/287.2

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 3. Document ID: US 5925518 A

L4: Entry 3 of 6

File: USPT

Jul 20, 1999

US-PAT-NO: 5925518

DOCUMENT-IDENTIFIER: US 5925518 A

TITLE: Nucleic acid primers for amplification of a mycobacteria RNA template

DATE-ISSUED: July 20, 1999

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Earle; Steven R.

Durham

NC

Jacobson; Walter E.

Raleigh

NC

US-CL-CURRENT: 435/6; 435/91.2, 536/24.3, 536/24.32

Full Title Citation Front Review Classification Date Reference Series & All September Claims KWIC Draw. De

☐ 4. Document ID: US 5665545 A

L4: Entry 4 of 6

File: USPT

Sep 9, 1997

US-PAT-NO: 5665545

DOCUMENT-IDENTIFIER: US 5665545 A

TITLE: Terminal repeat amplification method

DATE-ISSUED: September 9, 1997

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Malek; Lawrence

Brampton

CA

Sooknanan; Roy

Toronto

CA

US-CL-CURRENT: 435/6; 435/91.2, 435/91.21, 435/91.5, 435/91.51, 435/91.52, 435/91.53

Full Title Citation Front Review Classification Date Reference

Claims KMC Draw De

☐ 5. Document ID: US 5654142 A

L4: Entry 5 of 6

File: USPT

Aug 5, 1997

US-PAT-NO: 5654142

DOCUMENT-IDENTIFIER: US 5654142 A

Record List Display Page 3 of 4

** See image for Certificate of Correction **

TITLE: Method for nucleic acid amplification using <u>inosine triphosphates</u> to partially replace guanosine triphosphates in the synthesis of multiple RNA copies

DATE-ISSUED: August 5, 1997

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Kievits; Tim Vught NL
Lens; Peter Franklin Den Bosch NL
Adriaanse; Henriette Maria Aleida Boxmeer NL

US-CL-CURRENT: 435/6; 435/91.2, 435/91.21

	Full	Title	Citation Front	Review	Classification	Date	Reference		Claims	KWIC	Drawu De
constability	***************************************	***************************************									
		6.	Document ID:	EP 11	03624 A1						

File: EPAB

May 30, 2001

L4: Entry 6 of 6

DOCUMENT-IDENTIFIER: EP 1103624 A1

PUB-NO: EP001103624A1

TITLE: POTENTIATED NUCLEIC ACID AMPLIFICATION METHOD

PUBN-DATE: May 30, 2001

INVENTOR-INFORMATION:

NAME COUNTRY
ISHIZUKA, TETSUYA JP
ISHIGURO, TAKAHIKO JP
SAITOH, JUICHI JP
SAKAI, TOMOMI JP

ASSIGNEE - INFORMATION:

NAME COUNTRY
TOSOH CORP JP

APPL-NO: EP00931703 APPL-DATE: June 5, 2000

PRIORITY-DATA: JP15765399A (June 4, 1999)

INT-CL (IPC): C12 Q 1/68; C12 N 15/09; G01 N 33/542; G01 N 33/566

EUR-CL (EPC): C12Q001/68; C12Q001/68

ABSTRACT:

CHG DATE=20010704 STATUS=O> A method of amplifying a specific nucleic acid for assay of the specific nucleic acid anticipated in a sample by an RNA <u>amplification</u> procedure which comprises forming a <u>double-stranded</u> DNA which contains sequences complementary and homologous to the specific RNA sequence and has a promoter

Record List Display Page 4 of 4

sequence enabling transcription of the sequence by using the target RNA as the template and forming by using an RNA polymerase an RNA transcript which acts as the template for formation of a new single-stranded DNA, wherein in the RNA amplification procedure, inosine triphosphate is added in addition to adenosine triphosphate, uridine triphosphate, cytidine triphosphate and guanosine triphosphate to improve the efficiency of the amplification reaction.

Title Citation Front Review Classification Date Reference Source Classification Date Reference Source Classification Date Reference Company Classification Date Company Classification Date Reference Company Classification Date Company Company	ments Claims Ki
Generate Collection Print Fwd Refs Bkwd Refs	Generate
Term	Documents
INOSINE	12540
INOSINES	162
TRIPHOSPHATE	21407
TRIPHOSPHATES	10392
(2 AND (INOSINE ADJ TRIPHOSPHATE)).PGPB,USPT,USOC,EPAB,JPAB,DWPI.	6
(L2 AND INOSINE TRIPHOSPHATE).PGPB,USPT,USOC,EPAB,JPAB,DWPI.	6

Display Format: - Change Format

Previous Page Next Page Go to Doc#

DNA amplification and RNA amplification;

addition of base pair-weakening ribonucleotide

PATENT ASSIGNEE: Akzo

PATENT INFO: AU 9344835 3 Mar 1994 APPLICATION INFO: AU 1993-44835 23 Aug 1993 PRIORITY INFO: EP 1992-202564 24 Aug 1992

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: WPI: 1994-109842 [14]

1994-06647 BIOTECHDS AN

> The following are claimed: (1) a method for nucleic acid (NA) amplification which involves introducing nucleotides, during amplification, which weaken normal base-pairing; (2) a kit for amplifying NAs involving ribonucleotides which weaken normal base pairing; (3) a method for detecting amplified NAs where the NA is hybridized to a complementary oligonucleotide and is amplified ; and (4) a test kit for detection of NAs. The ribonucleotides are preferably inosine-triphosphate nucleotides and they partially substitute up to 50% of guanine-triphosphate nucleotides. Incorporation of the ribonucleotides during amplification prevents the formation of secondary structures in the amplificate . The efficiency of the amplification is therefore increased. An improved sensitivity during detection is also found by this method. In an example, vector plasmid pGem7z f(+), containing an insertion of 277 nt of the hepatitis C virus genome in its Smal site, was used to generate a (+)RNA strand using phage T7 RNA-polymerase (EC-2.7.7.6). The amplified NA was electrophoresed and samples with differing amounts of NA were amplified. (14pp)

ANSWER 11 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1994:428610 CAPLUS

DOCUMENT NUMBER:

121:28610

TITLE:

AR

Method for nucleic acid amplification involving ribonucleotide incorporation

INVENTOR(S):

Kievits, Tim; Lens, Peter F.; Adriaanse, Henriette M.

PATENT ASSIGNEE(S):

Akzo N. V., Neth.

SOURCE:

Can. Pat. Appl., 12 pp.

CODEN: CPXXEB

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 2104508	AA	19940225	CA 1993-2104508	19930820
ZA 9306016	A	19940310	ZA 1993-6016	19930817
EP 629706	A2	19941221	EP 1993-202455	19930820
EP 629706	A3	19971217		
R: AT, BE, CH,	DE, DK	, ES, FR, GB	, GR, IE, IT, LI, LU,	MC, NL, PT, SE
AU 9344835	A 1	19940303	AU 1993-44835	19930823
AU 670804	B2	19960801		
JP 06165699	A2	19940614	JP 1993-207766	19930823
US 5654142	A	19970805	US 1995-403540	19950314
PRIORITY APPLN. INFO.:			EP 1992-202564	A 19920824
			US 1993-110919	B1 19930824

An improved method for the amplification of nucleic acid is AB characterized in that ribonucleotides are introduced during amplification that weaken normal base pairing. Preferably the ribonucleotides are inosinetriphosphate nucleotides which partly substitute guaninetriphosphate nucleotides normally present in the amplification reaction mixture The incorporation of nucleotides, during amplification, that weaken normal base pairing prevents

the formation of secondary structures in the amplificate. The efficiency of the amplification is thereby increased. The introduction, during amplification, of nucleotides that weaken normal base pairing also results in an improved sensitivity during detection of the amplified nucleic acid, when the detection method comprises the hybridization of the amplified nucleic acid to a complementary sequence. Part of the hepatitis C virus genome was amplified by NASBA using ITP:GTP of 1:3. Results showed that 102 mols. input of nucleic acid amplified in the presence of ITP gave a detectable band on gel electrophoresis, whereas nucleic acid amplified in the absence of ITP only gave a detectable signal when amplification was started with 104 mols. input.

Selective amplification of RNA utilizing the

nucleotide analog dITP and Thermus thermophilus DNA

polymerase.

AUTHOR: Auer T; Sninsky J J; Gelfand D H; Myers T W

CORPORATE SOURCE: Program in Core Research, Roche Molecular Systems, Alameda,

CA 94501, USA.

SOURCE: Nucleic acids research, (1996 Dec 15) 24 (24) 5021-

Journal code: 0411011. ISSN: 0305-1048.

PUB. COUNTRY:

ENGLAND: United Kingdom

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199703

ENTRY DATE:

Entered STN: 19970321

Last Updated on STN: 19980206 Entered Medline: 19970311

The ability to selectively amplify RNA in the presence of AΒ genomic DNA of analogous sequence is cumbersome and requires implementation of critical controls for genes lacking introns. convenient approaches of either designing oligonucleotide primers at the splice junction or differentiating the target sequence based on the size difference obtained by the presence of the intron are not possible. Our strategy for the selective amplification of RNA targets is based on the enzymology of a single thermostable DNA polymerase and the ability to modulate the strand separation temperature requirements for PCR amplification. Following reverse transcription of the RNA by recombinant Thermus thermophilus DNA polymerase (rTth pol), the resulting RNAxDNA hybrid is digested by the RNase H activity of rTth pol, allowing the PCR primer to hybridize and initiate second-strand cDNA synthesis. Substitution of one or more conventional nucleotides with nucleotide analogs that decrease base stacking interactions and/or hydrogen bonding (e.g. hydroxymethyldUTP or dITP) during the first- and second-strand cDNA synthesis step reduces the strand separation temperature of the resultant DNAxDNA duplex. Alteration of the thermal cycling parameters of the subsequent PCR amplification, such that the strand separation temperature is below that required for denaturation of genomic duplex DNA composed of standard nucleotides, prevents the genomic DNA from being denatured and therefore amplified.

L5 ANSWER 9 OF 16 MEDLINE ON STN ACCESSION NUMBER: 95247017 MEDLINE DOCUMENT NUMBER: PubMed ID: 7729673

TITLE:

Cold-sensitive conditional mutations in Era, an essential Escherichia coli GTPase, isolated by localized random

Escherichia coil Girase, isolated by localiz

polymerase chain reaction mutagenesis.

AUTHOR: Lerner C G; Gulati P S; Inouye M

CORPORATE SOURCE: Department of Biochemistry, UMDNJ-Robert Wood Johnson

\ Medical School, Piscataway 08854-5635.

CONTRACT NUMBER: GMI2446 (NIGMS)

GM19043 (NIGMS)

SOURCE: FEMS microbiology letters, (1995 Mar 1) 126 (3) 291-8.

Journal code: 7705721. ISSN: 0378-1097.

PUB. COUNTRY:

Netherlands

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199505

ENTRY DATE: Entered STN: 19950608

PubMed ID: 9512564

TITLE:

Inosine 5'-triphosphate can dramatically increase the yield

of NASBA products targeting GC-rich and intramolecular

base-paired viroid RNA.

AUTHOR:

Nakahara K; Hataya T; Uyeda I

CORPORATE SOURCE:

Department of Agrobiology and Bioresources, Faculty of Agriculture, Hokkaido University, Sapporo 060-8589, Japan.

SOURCE:

Nucleic acids research, (1998 Apr 1) 26 (7) 1854-6.

Journal code: 0411011. ISSN: 0305-1048.

PUB. COUNTRY:

ENGLAND: United Kingdom

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199805

ENTRY DATE:

Entered STN: 19980609

Last Updated on STN: 19980609

Entered Medline: 19980528

AB Nucleic acid sequence-based amplification (NASBA) according to the standard protocol failed to amplify cRNA of viroids, probably because of their GC-rich and intramolecular base-paired structure. However, NASBA in the presence of inosine 5'-triphosphate successfully amplified the cRNAs to viroids in total nucleic acid extracts from citrus plants. As sequence specificity of the cRNA to viroids was confirmed by northern analysis, the amplification and fidelity of cRNAs are sufficient for the sensitive and specific detection of viroids.

PubMed ID: 9512564

TITLE: Inosine 5'-triphosphate can dramatically increase the yield

of NASBA products targeting GC-rich and intramolecular

base-paired viroid RNA.

AUTHOR:

Nakahara K; Hataya T; Uyeda I

CORPORATE SOURCE: Department of Agrobiology and Bioresources, Faculty of

Agriculture, Hokkaido University, Sapporo 060-8589, Japan.

Nucleic acids research, (1998 Apr 1) 26 (7) 1854-6.

Journal code: 0411011. ISSN: 0305-1048.

PUB. COUNTRY:

ENGLAND: United Kingdom

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

SOURCE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199805

ENTRY DATE:

Entered STN: 19980609

Last Updated on STN: 19980609 Entered Medline: 19980528

AB Nucleic acid sequence-based amplification (NASBA) according to the standard protocol failed to amplify cRNA of viroids, probably because of their GC-rich and intramolecular base-paired structure. However, NASBA in the presence of inosine 5'-triphosphate successfully amplified the cRNAs to viroids in total nucleic acid extracts from citrus plants. As sequence specificity of the cRNA to viroids was confirmed by northern analysis, the amplification and fidelity of cRNAs are sufficient for the sensitive and specific detection of viroids.

121:28610

TITLE: Method for nucleic acid amplification

involving ribonucleotide incorporation

INVENTOR(S): Kievits, Tim; Lens, Peter F.; Adriaanse, Henriette M.

Α.

PATENT ASSIGNEE(S):

Akzo N. V., Neth.

SOURCE:

Can. Pat. Appl., 12 pp.

CODEN: CPXXEB

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 2104508	AA	19940225	CA 1993-2104508	19930820
ZA 9306016	Α	19940310	ZA 1993-6016	19930817
EP 629706	A2	19941221	EP 1993-202455	19930820
EP 629706	A3	19971217		
R: AT, BE, CH,	DE, DK	, ES, FR, 0	GB, GR, IE, IT, LI, LU,	, MC, NL, PT, SE
AU 9344835	A1	19940303	AU 1993-44835	19930823
AU 670804	B2	19960801		
JP 06165699	A2	19940614	JP 1993-207766	19930823
US 5654142	A	19970805	US 1995-403540	19950314
PRIORITY APPLN. INFO.:			EP 1992-202564	A 19920824
			US 1993-110919	B1 19930824

An improved method for the amplification of nucleic acid is AR characterized in that ribonucleotides are introduced during amplification that weaken normal base pairing. Preferably the ribonucleotides are inosinetriphosphate nucleotides which partly substitute quaninetriphosphate nucleotides normally present in the amplification reaction mixture The incorporation of nucleotides, during amplification, that weaken normal base pairing prevents the formation of secondary structures in the amplificate. efficiency of the amplification is thereby increased. The introduction, during amplification, of nucleotides that weaken normal base pairing also results in an improved sensitivity during detection of the amplified nucleic acid, when the detection method comprises the hybridization of the amplified nucleic acid to a complementary sequence. Part of the hepatitis C virus genome was amplified by NASBA using ITP:GTP of 1:3. Results showed that 102 mols. input of nucleic acid amplified in the presence of ITP qave a detectable band on gel electrophoresis, whereas nucleic acid amplified in the absence of ITP only gave a detectable signal when amplification was started with 104 mols. input.

L5 ANSWER 12 OF 16 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 930

93023457 EMBASE

DOCUMENT NUMBER:

1993023457

TITLE:

In vitro recombination and terminal elongation of RNA by

OB replicase.

AUTHOR:

Biebricher C.K.; Luce R.

CORPORATE SOURCE:

Max-Planck-Ins Biophysical Chemistry, D-3400 Gottingen,

Germany

SOURCE:

EMBO Journal, (1992) 11/13 (5129-5135).

ISSN: 0261-4189 CODEN: EMJODG

COUNTRY:

United Kingdom
Journal; Article
004 Microbiol

DOCUMENT TYPE: FILE SEGMENT:

Microbiology Human Genetics

022 029

Clinical Biochemistry

LANGUAGE:

English

SUMMARY LANGUAGE:

English

AΒ SV-11 is a short-chain [115 nucleotides (nt)] RNA species that is replicated by $Q\beta$ replicase. It is reproducibly selected when MNV-11, another 87 nt RNA species, is extensively $amplified\ \mbox{by}\ Q\beta$ replicase at high ionic strength and long incubation times. Comparing the sequences of the two species reveals that SV-11 contains an inverse duplication of the high-melting domain of MNV-11. SV-11 is thus a recombinant between the plus and minus strands of MNV-11 resulting in a nearly palindromic sequence. During chain elongation in replication, the chain folds consecutively to a metastable secondary structure of the RNA, which can rearrange spontaneously to a more stable hairpin-form RNA. While the metastable form is an excellent template for $Q\beta$ replicase, the stable RNA is unable to serve as template. When initiation of a new chain is suppressed by replacing GTP in the replication mixture by ITP, $\ensuremath{\mathsf{Q}\beta}$ replicase adds nucleotides to the 3' terminus of RNA. The replicase uses parts of the RNA sequence, preferentially the 3' terminal part for copying, thereby creating an interior duplication. This reaction is about five orders of magnitude slower than normal template-instructed synthesis. The reaction also adds nucleotides to the 3' terminus of some RNA molecules that are unable to serve as templates for $\ensuremath{\text{Q}\beta}$ replicase.